

MODULE 5b



5.1

System Administrator

SYSTEM ADMINISTRATION 5.2

Super-User



MODULE 5b OBJECTIVES

Using the STT training simulator, system manuals, and student workbooks, the student will be able to perform System Administration and Super-User functions.



LESSON 5b.1



STT System Administrator



LESSON 5b.1 OVERVIEW

In this section we will cover:

- Software Version
- Loading Data
- Restoring Data
- Ejecting Floppy Disk



LESSON 5b.1 OBJECTIVES

- Using the STT training simulator, system manuals, and student workbooks, the student will be able to:
 - Display the current Software Version
 - Load Data from a floppy disk
 - Restoring Data from a prior load
 - Eject a floppy disk

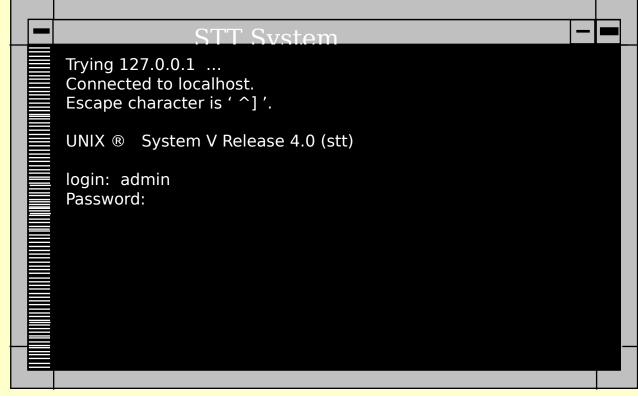






- Log-in as System Administrator
 - Type admin and press ENTER

- Type the admin password and press ENTER

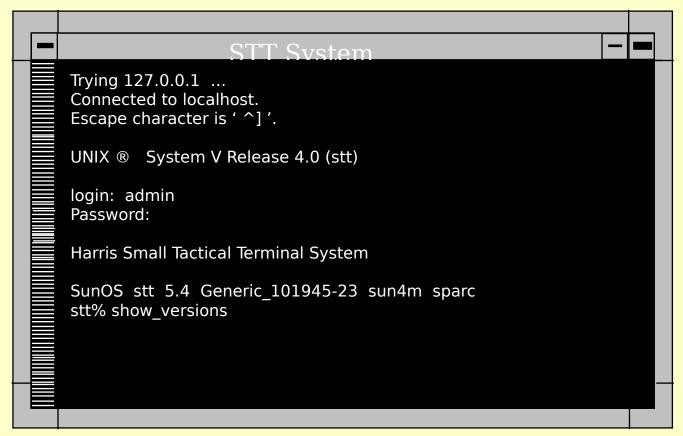




SOFTWARE VERSION

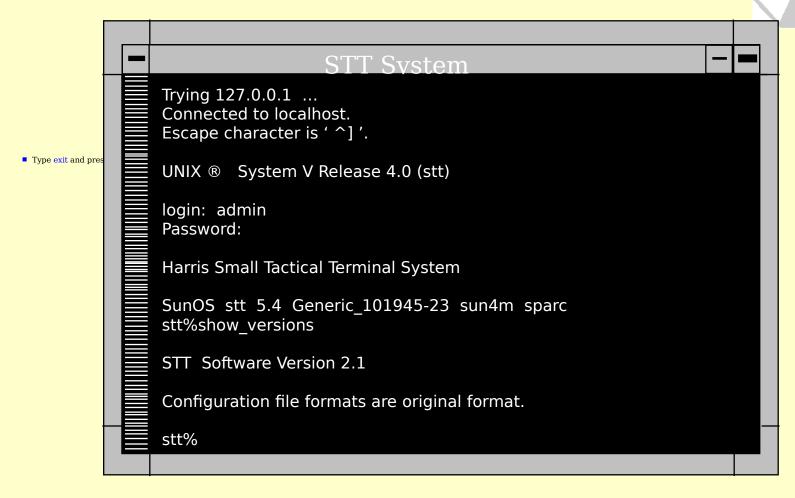


Type show versions and press ENTER





SOFTWARE VERSION

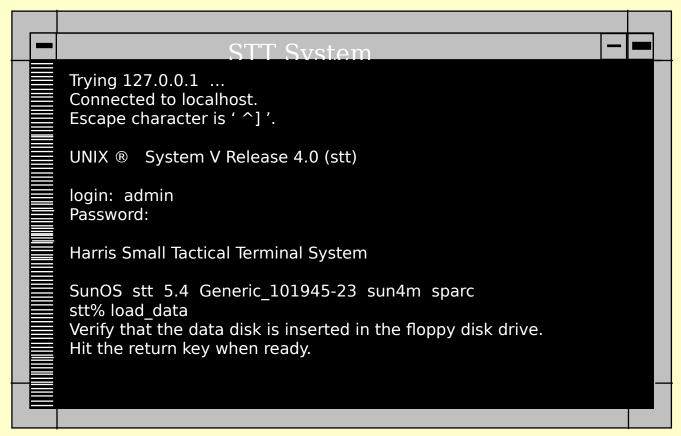




LOADING DATA



- Log-in as System Administrator
- Type load_data and press ENTER





LOADING DATA



Insert Floppy Disk with Data and Press ENTER

```
STT System
=== Installation ===
=== installation complete ===
End Update
Wed Oct 29 20:55:53 GMT 1997
Wed Oct 29 20:55:53 1997 ErrorID: 21100
Load data completed successfully.
stt%
```

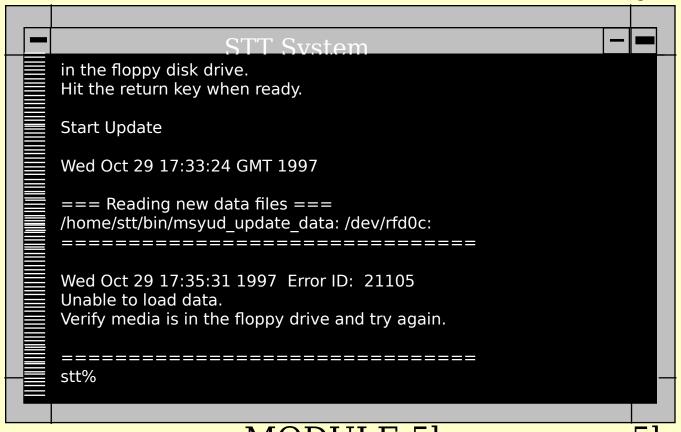
Type exit and press ENTER MODULE 5b



LOADING DATA



- If upload fails, obtain another floppy and try again
- If second failure, use T.O.s to troubleshoot system



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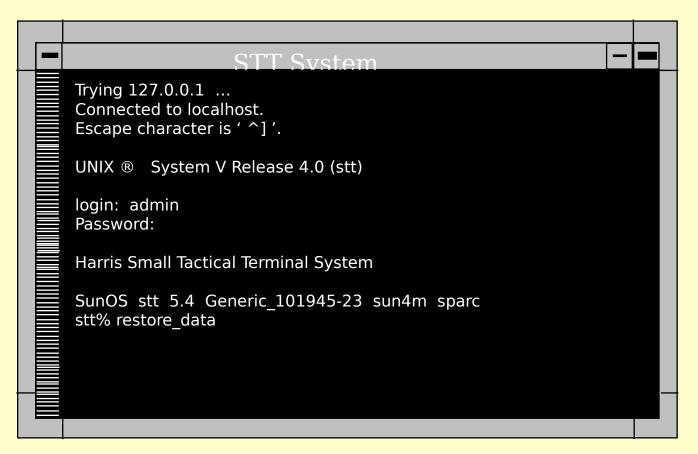
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RESTORING DATA



- Log-in as System Administrator
- Type restore_data and press ENTER









```
STT System
SunOS stt 5.4 Generic 101945-23 sun4m sparc
stt% restore data
=== Restore ===
## Restoring files to final location with cp -p: ##
DMSP
=== Restore complete ===
_______
Wed Oct 29 20:59:03 1997 Error ID: 21100
Restore data completed successfully.
stt%
```

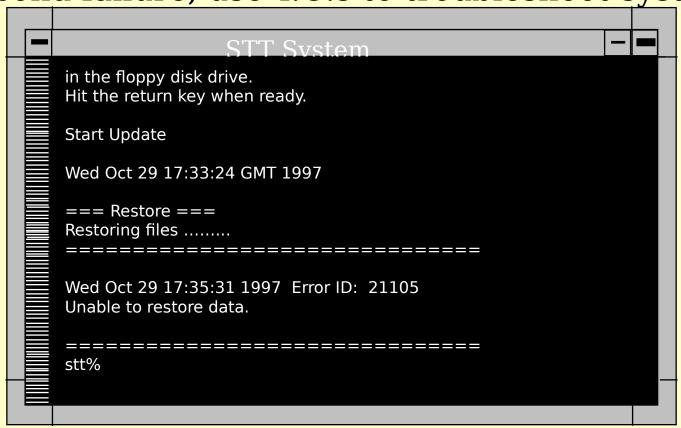
Type exit and press ENTER



RESTORING DATA



- If restore fails, attempt another restore
- If second failure, use T.O.s to troubleshoot system



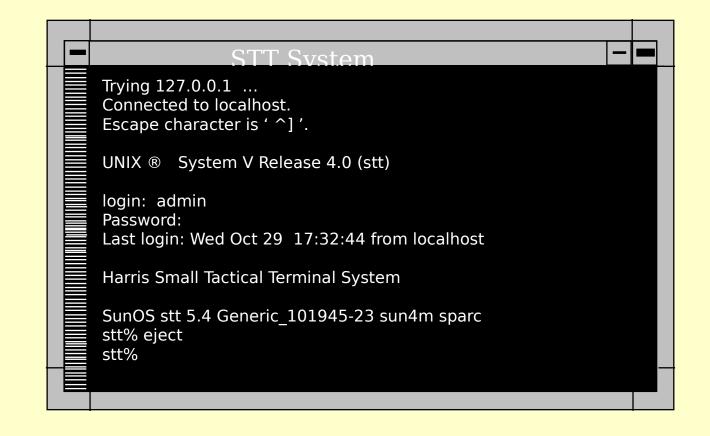


- Log-in as System Administrator
- Type eject and press RETURN

EJECTING FLOPPY



■ Type exit and press RETURN





LESSON 5b.1 REVIEW



In this section we covered:

- Software Version
- Loading Data
- Restoring Data
- Ejecting Floppy Disk



LESSON 5b.2



STT Super-User



LESSON 5b.2 OVERVIEW

In this section we will cover:

- Root Log-in
- Network Configuration
- Changing Passwords
- Verifying System Configuration Files
- Restoring System Configuration Files



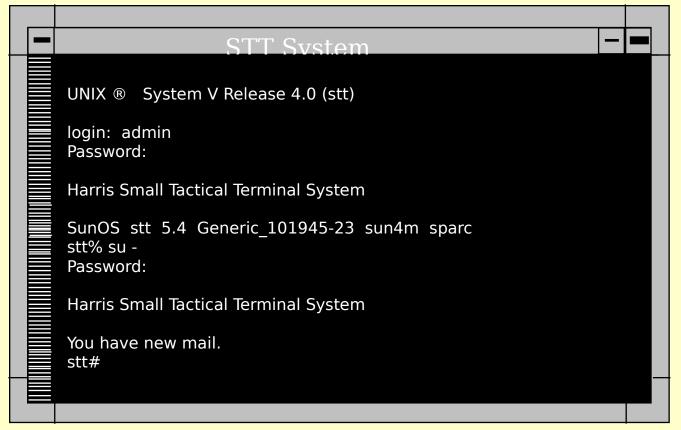
LESSON 5b.2 OBJECTIVES

- Using the STT training simulator, system manuals, and student workbooks, the student will be able to:
 - Log-in as super-user
 - Manipulate and save network configuration files
 - Change system passwords
 - Verify system configuration files written to a floppy disk
 - Restore system configuration from tape or floppy



ROOT LOG-IN

- Log-in as System Administrator
- Type su and press RETURN
- Type the superuser password and press RETURN







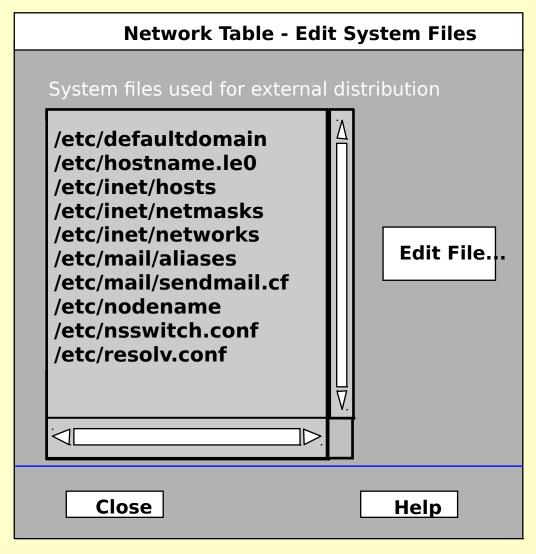
NETWORK CONFIGURATION

■ Type network and press RETURN

	External Systems Network Table		
Select "Edit System Files"	Weather System CWS IMETS TAWDS External Distribution → On → Off		
	✓ ► Network Information for Remote Weather System		
	Host ID View IP Address		
	Directory/dmsp		
	Apply Reset		
	Close Edit System Files Help		



NETWORK CONFIGURATION



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NETWORK CONFIGURATION etc/hostname.le0 file

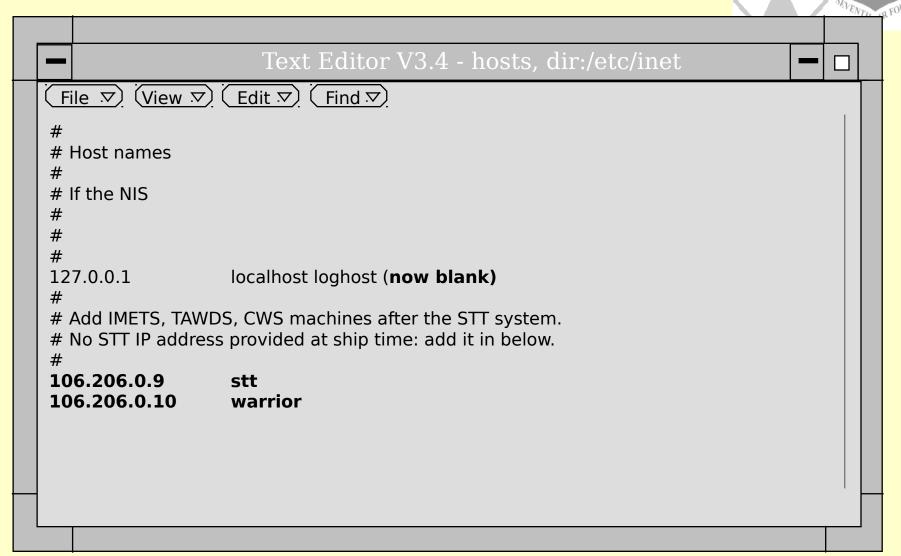
		N
_	Text Editor V3.4 - hostname.le0	
E	ile ♥ View♥ Edit♥ Find♥	
stt		

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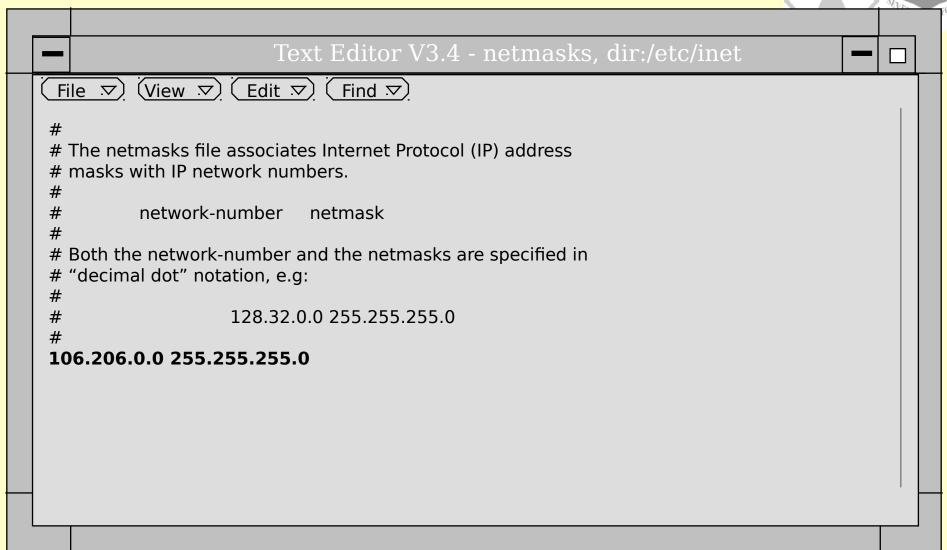


NETWORK CONFIGURATION etc/inet/hosts file





NETWORK CONFIGURATION etc/inet/netmasks file

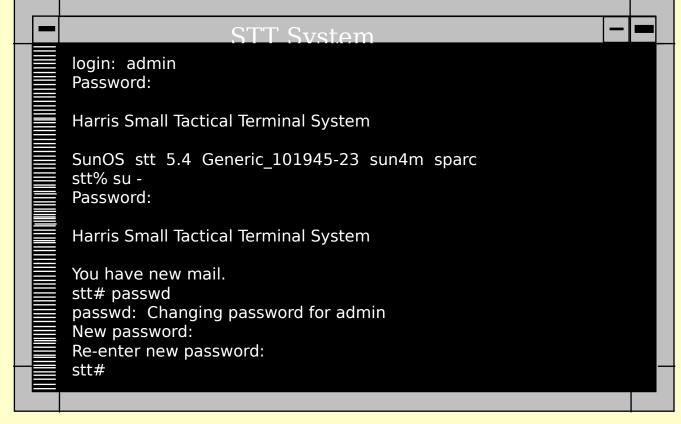




CHANGING PASSWORDS

Type passwd xxxxxxx and press ENTER (where xxxxxxx is the account name: admin, root, config,

stt)





CHANGING PASSWORDS



- New password must be entered twice
- If a mismatch is found between the 2 entries, the password will not be changed

NOTE: ensure password changes are noted, especially for super-user ... once changed, there is no return to root if the superuser pass word is lost

- Once changed, the root prompt is displayed stt#
- exit and return to operations



VERIFYING SYSTEM CONFIGURATION FILES

- Used to verify that system unique configuration files were written to a floppy disk.
- After the configuration files were saved to floppy disk. Open the Log/Message viewer by double clicking the Log/Msg icon. Select Status for the Log Type. Scroll down on the Name list to save_config. Select it. On the File list select the latest file. Then click on display.
- Output should look similar to this:

```
/tmp/os_cpio.Z
.//home/base/config/saved_version
.//home/base/config/saved_file_formats
/tmp/config_cpio.Z
```



RESTORING SYSTEM CONFIGURATION FILES

- To restore configuration files, the system *can not* be in operational mode
- Log-out
- Log-in as "Admin"
- Log-in as "Superuser":
 - Enter "restore config"
 - Enter "tape" or "floppy" depending on your media available
 - Enter "Y" or "N" for restoring network files
- Once restore is complete, log-in as "stt" and resume operations



LESSON 5b.2 REVIEW



In this section we covered:

- Root Log-in
- Network Configuration
- Changing Passwords
- Verifying System Configuration Files
- Restoring System Configuration Files



LESSON 5b.3



STT to PC Connectivity



LESSON 5b.3 OVERVIEW

In this section we will cover connecting the STT to a personal computer (PC) for the purpose of transferring images to the PC.



LESSON 5b.3 OBJECTIVE

- Using the STT training simulator, a personal computer, and a student workbook, the student will be able to:
 - Identify requirements for connecting the STT to a network
 - Make changes to required networking files
 - Connect the STT to a network or directly to a PC
 - Use File Transfer Protocol (ftp) to transfer an image to the PC



STT NETWORKING ISSUES

- If the STT is being connected to an existing network, the network manager must be contacted to have a security accreditation inspection performed before the STT is connected
- Once the accreditation is performed, the network manager will give you the following information:
 - Internet Protocol (IP) address for the STT
 - Netmask for the network
- If the STT to PC connection is to be separate from any network, the accreditation is not required and you can create your own IP addresses and Netmasks



On the STT, set-up the /etc/inet/hosts file as

```
Text Editor V3.4 - hosts,
      (Vie ♥) (Fdit♥) (Find♥)
       W
# Host names
# If the NIS ......
127.0.0.1
                   localhost loghost
#Add IMETS, TAWDS, and CWS machines after the STT
system.
#No STT IP address provided at ship time: add it in below.
106.206.0.9
                   stt
106.206.0.10
                   рс
```



On the STT, set-up the /etc/inet/netmasks file as

```
Text Editor V3.4 - hosts,
File ♥ (View♥) (Fdit♥) (Find♥)
# The netmasks file associates Internet Protocol (IP) address
# masks with IP network numbers.
          network-number netmask
# Both the network-number and the netmasks are specified in
# "decimal dot" notation, e.g:
                   128.32.0.0 255.255.255.0
106.206.0.0 255.255.255.0
```



- Once changes are made to the hosts and netmask file and changes are saved, shutdown the STT through the STT root menu
- Connect the STT to the network
- Power up the STT
- Log in as a stt user



- Following the STT to PC Connectivity handout, configure Network files on the PC and reboot the PC
- Check network connectivity by using the ping command
- Mail the desired image from the STT using the filename image.tif
- From the PC, FTP the image to the PC
- To make the transfer of images from the STT to a PC easier, download the freeware program WS_FTP95, which is found at: http://www.csra.net/junodj/ws_ftp.htm
- Use a program that can view .tif files, such as Paint Shop Pro, to view the image



MODULE 5b.3 REVIEW



REVIEW

QUESTIONS?



MODULE 5b REVIEW



STT to PC Connectivity

QUESTIONS??